

Substitute Form PTO-1449 (Modified)  <b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary)  (37 CFR §1.98(b))	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. <b>08191-029US1</b>	Application No. <b>10/532,168</b>
	Applicant <b>Kathleen Beach et al.</b>		
	Filing Date <b>March 21, 2006</b>	Group Art Unit <b>1648</b>	

U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA	4,741,872	05/03/98	DeLuca et al.			
	AB	4,777,239	10/11/88	Schoolnik et al.			
	AC	5,075,109	12/24/91	Tice et al.			
	AD	5,413,797	05/09/95	Khan et al.			
	AE	5,547,846	08/20/96	Bartsch et al.			
	AF	5,580,859	12/03/96	Felgner et al.			
	AG	5,589,466	12/31/96	Felgner et al.			
	AH	5,593,972	01/14/97	Weiner et al.			
	AI	5,629,161	05/13/97	Muller et al.			
	AJ	5,633,234	05/27/97	August et al.			
	AK	5,643,605	07/01/97	Cleland et al.			
	AL	5,648,459	07/15/97	Cole et al.			
	AM	5,656,297	08/12/97	Bernstein et al.			
	AN	5,679,509	10/21/97	Wheeler et al.			
	AO	5,679,647	10/21/97	Carson et al.			
	AP	5,695,770	12/09/97	Raychaudhuri et al.			
	AQ	5,703,055	12/30/97	Felgner et al.			
	AR	5,705,151	01/06/98	Dow et al.			
	AS	5,709,860	01/20/98	Raychaudhuri et al.			
	AT	5,719,054	02/17/98	Boursnell et al.			
	AU	5,733,548	03/31/98	Restifo et al.			
	AV	5,736,524	04/07/98	Content et al.			
	AW	5,753,233	05/19/98	Bleul et al.			
	AX	5,783,567	07/21/98	Hedley et al.			
	AY	5,840,306	11/24/98	Hofmann et al.			
	AZ	5,846,540	12/08/98	Restifo et al.			
	AAA	5,880,103	03/09/99	Urban et al.			

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	ABB	5,932,412	08/03/99	Dillner et al.			
	ACC	5,962,428	10/05/99	Carrano et al.			
	ADD	6,004,557	12/21/99	Edwards et al.			
	AEE	6,007,806	12/28/99	Lathe et al.			
	AFF	6,013,258	01/11/00	Urban et al.			
	AGG	6,037,135	03/14/00	Kubo et al.			
	AHH	6,183,745	02/06/01	Tindle et al.			
	AII	6,183,746	02/06/01	Urban et al.			
	AJJ	6,235,523	05/22/01	Gajewczyk et al.			
	AKK	6,248,565	06/19/01	Williams et al.			
	ALL	6,306,397	10/23/01	Edwards et al.			
	AMM	6,534,482	03/18/03	Fikes			
	ANN	6,797,491	09/28/04	Neeffe et al.			
	AOO	2002/0103145	08/01/02	Bot et al.			
	APP	2002/0164721	11/07/02	Firat et al.			
	AQQ	2005/0100928	05/12/05	Hedley et al.			

Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	ARR	60-147368	07/04/85	Japan				
	ASS	0 451 550 A2	10/16/91	EP				
	ATT	WO 92/05248	04/02/92	PCT				
	AUU	WO 93/22338	11/11/93	PCT				
	AVV	WO 94/03205	02/17/94	PCT				
	AWW	WO 94/04557	03/03/94	PCT				
	AXX	WO 94/20127	09/15/94	PCT				
	AYY	WO 94/21680	09/29/94	PCT				

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							Yes	No
	AZZ	WO 94/23738	10/27/94	PCT				
	AAAA	WO 95/24929	09/21/95	PCT				
	ABBB	WO 96/00583	01/11/96	PCT				
	ACCC	WO 96/03144	02/08/96	PCT				
	ADDD	WO 96/19496	06/27/96	PCT				
	AEEE	WO 97/17063	05/15/97	PCT				
	AFFF	WO 97/33602	09/18/97	PCT				
	AGGG	WO 97/34617	09/25/97	PCT				
	AHHH	WO 97/41440	11/06/97	PCT				
	AIII	WO 97/42940	11/20/97	PCT				
	AJJJ	WO 98/31398	07/23/98	PCT				
	AKKK	WO 99/18995	04/22/99	PCT				
	ALLL	WO 99/45954	09/16/99	PCT				
	AMMM	WO 99/58658	11/18/99	PCT				
	ANNN	WO 00/75336	12/14/00	PCT				
	AOOO	WO 01/41799	06/14/01	PCT				
	APPP	WO 01/19408	03/22/01	PCT				

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	AQQQ	An et al. "A Multivalent Minigene Vaccine, Containing B-Cell, Cytotoxic T-Lymphocyte, and T <sub>H</sub> Epitopes from Several Microbes, Induces Appropriate Responses In Vivo and Confers Protection Against More Than One Pathogen" J. VIROLOGY, 71(3):2292-2302 (1997)
	ARRR	Bourns et al., <i>Construction and characterization of a recombinant vaccinia virus expressing human papillomavirus proteins for immunotherapy of cervical cancer</i> , Vaccine, 1996, Vol. 14, No. 16, pp. 1485-1494.
	ASSS	Cohen et al. <i>HIV/AIDS in 1998 - Gaining the Upper Hand?</i> , JAMA, Vol. 280, No. 1:87-88 (1998).
	ANNN	Collins et al., "Processing Of Exogenous Liposome-Encapsulated Antigens In Vivo Generates Class I Mhc-Restricted T Cell Responses," THE JOURNAL OF IMMUNOLOGY, 148:3336-3341, No. 11, June 1, 1992
	AUUU	Cryz et al., <i>Vaccine Delivery Systems</i> , Vaccine, Vol. 14:p. 665-690, Vol. 14 (1996).

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Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	APPP	Donahoe et al. "Direct Measurement of CD8+ T Cell Responses In Macaques Infected With Simian Immunodeficiency Virus" VIROLOGY, 272:347-356 (2000)
	AWWW	Donnelly et al., "Immunization with DNA," JOURNAL OF IMMUNOLOGICAL METHODS, 176:145-152, No. 2 (1994)
	AXXX	Elliott et al., "Processing of Major Histocompatibility Class I-restricted Antigens in the Endoplasmic Reticulum," THE JOURNAL OF EXPERIMENTAL MEDICINE, 181:1481-1491 (1995)
	AYYY	Feltkamp et al., "Vaccination with cytotoxic T Lymphocyte epitope-containing peptide protects against a tumor induced by human papillomavirus type 16-transformed cells," EUROPEAN JOURNAL OF IMMUNOLOGY, 23:2242-2249 (1993)
	AZZZ	Fries et al., "Liposomal Malaria Vaccine in Humans: A Safe and Potent adjuvant Strategy," PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES, 89:358-362 (1992)
	AAAAA	Fynan et al., "DNA Vaccines: Protective Immunizations by Parenteral, Mucosal, and Gene-Gun Inoculations," PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES, 90:11478-11482 (1993)
	ABBBB	Gao et al., "Tumor-Associated E6 Protein of Human Papillomavirus Type 16 Contains an Unusual H-2K <sup>b</sup> -Restricted Cytotoxic T Cell Epitope," THE JOURNAL OF IMMUNOLOGY, 155:5519-5526 (1995)
	ACCCC	Garcia et al., "ZYC101a for treatment of high-grade cervical intraepithelial neoplasia: a randomized controlled trial," Obstet. Gynecol., 103:317-326 (2004)
	ADDDD	Hanke et al. "DNA Multi-CTL Epitope Vaccines for HIV and <i>Plasmodium Falciparum</i> : Immunogenicity In Mice" VACCINE, 16(4):426-435 (1998)
	AEEEE	Hanke et al. "Effective Induction of HIV-Specific CTL By Multi-Epitope Using Gene Gun In a Combined Vaccination Regime" VACCINE, (17):598-596 (1999).
	AFFFF	Hanke et al. "Immunogenicities of Intravenous and Intramuscular Administrations of Modified Vaccinia Virus Ankara-Based Multi-CTL Epitope Vaccine for Human Immunodeficiency Virus Type 1 In Mice" J. GENERAL VIROLOGY, 79:83-90 (1998).
	AGGGG	Hanke et al. "Pre-Clinical Development of a Multi-CTL Epitope-Based DNA Prime MVA Boost Vaccine for AIDS" IMMUNOLOGY LETTERS, 66:177-181 (1999).
	AHHHH	Hedley et al., <i>Microspheres Containing Plasmid-Encoded Antigens Elicit Cytotoxic T-Cell Responses</i> , NATURE MEDICINE 4(3):365-368 (1998)
	AIIII	Hurtenbach et al., "Prevention of Autoimmune Diabetes in Non-Obese Diabetic Mice by Treatment with a Class II Major Histocompatibility Complex-blocking Peptide," THE JOURNAL OF EXPERIMENTAL MEDICINE, 177:1499-1504 (1993)
	AJJJJ	Ishioka et al. "Utilization of MHC Class I Transgenic Mice for Development of Minigene DNA Vaccines Encoding Multiple HLA-Restricted CTL Epitopes" J. IMMUNOL., 162:3915-3925 (1999)
	AKKKK	Jochmus et al., "Specificity of human cytotoxic T Lymphocytes induced by a human papillomavirus type 16 E7-derived peptide," THE JOURNAL OF GENERAL VIROLOGY, 78:1689-1695 (1997)
	ALLLL	Kadish et al., "Cell-mediated immune responses to E7 peptides of human papillomavirus (HPV) type 16 are dependent on the HPV type infecting the cervix whereas serological reactivity is not type-specific," THE JOURNAL OF GENERAL VIROLOGY, 75:2277-2284, September 1994
	AMMMM	Kadish et al., "Lymphoproliferative Responses to Human Papillomavirus (HPV) Type 16 Proteins E6 and E7: Outcome of HPV Infection and Associated Neoplasia," JOURNAL OF THE NATIONAL CANCER INSTITUTE, 89:1285-1293 (1997)

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	ANNNN	Kast "Role of HLA-A Motifs in Identification of Potential CTL Epitopes in Human Papillomavirus Type 16 E6 and E7 Proteins" J. IMMUNOL., 152:3904-3912 (1994)
	AOOOO	Kast et al., "Human Leukocyte Antigen-A2.1 Restricted Candidate Cytotoxic T Lymphocyte Epitopes of Human Papillomavirus Type 16 E6 and E7 Proteins Identified by Using the Processing-Defective Human Cell Line T2," THE JOURNAL OF IMMUNOTHERAPY, 14:115-120 (1993)
	APPPP	Klencke et al., "Encapsulated plasmid DNA treatment for human papillomavirus 16-associated anal dysplasia: a phase I study of ZYC101," Clinical Cancer Research, 8:1028-1037 (2002)
	AQQQQ	Laivani "An HLA-Based Approach To the Design Of a CTL-Inducing Vaccine Against <i>Plasmodium Falciparum</i> " RES. IMMUNOL, 145(6):461-468 (1994)
	ARRRR	Lin et al., "Treatment of Established Tumors with a Novel Vaccine that Enhances Major Histocompatibility Class II Presentation of Tumor Antigen," CANCER RESEARCH, 56:21-26 (1996).
	ASSSS	Madden et al., "The Antigenic Identity of Peptide-MHC Complexes: A Comparison of the conformations of Five Viral Peptides Presented by HLA-A2," CELL, 75:693-708 (1993)
	ATTTT	Moscicki, A.B., <i>Human Papillomavirus Infection In Adolescents</i> , PEDIATRIC CLINICS OF NORTH AMERICA, 46(4):783-807 (1999).
	AUUUU	McCluskie et al., <i>Route and method of delivery of DNA vaccine influence immune responses in mice and non-human primates</i> , pp. 287-300 (1999)
	AVVVV	McKenzie, Immunologic Res. 24/3:225-244 (2001)
	AWWWW	Mowat et al., "ISCOMS - A Novel Strategy for Mucosal Immunization?", IMMUNOLOGY TODAY, 12:383-385 (1991)
	AXXXX	Murakami et al., <i>Human Papillomavirus Vaccines for Cervical Cancer</i> , Journal of Immunotherapy, Vol. 22:3, pp. 212-218 (1999).
	AYYYY	Nabel et al., "Transduction of a Foreign Histocompatibility Gene into the Arterial Wall Induces Vasculitis," PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES, 89:5157-5161, No. 11 (1992).
	AZZZZ	Nixon et al. "Simian Immunodeficiency Virus-Specific Cytotoxic T Lymphocytes and Protection Against Challenge In Rhesus Macaques Immunized With a Live Attenuated Simian Immunodeficiency Virus Vaccine" VIROLOGY, 266:203-210 (2000).
	AAAAAA	Osband et al., "Problems in the Investigational Study and Clinical Use of Cancer Immunotherapy," IMMUNOLOGY TODAY, 11:193-195 (1990)
	ABBBBB	Pachuk et al., <i>DNA Vaccines-Challenges in Delivery</i> , Current Opinion in Molecular Therapeutics, Vol. 2, No. 2, pp. 188-198. (2000)
	ACCCCC	Piscitelli, <i>Immune-Based Therapies for Treatment of HIV Infection</i> , The Annals of Pharmacotherapy, Vol. 30:62-76 (1996).
	ADDDDD	Reddy et al., "In Vivo Cytotoxic T Lymphocyte Induction with Soluble Proteins Administered in Liposomes," THE JOURNAL OF IMMUNOLOGY, 148:1585-1589, No. 5 (1992).
	AEEEEEE	Ressing et al., "Human CTL Epitopes Encoded by Human Papillomavirus Type 16 E6 and E7 Identified Through In Vivo and In Vitro Immunogenicity Studies of HLA-A 0201 Binding Peptides," THE JOURNAL OF IMMUNOLOGY, 154:5934-5943 (1995).
	AFFFFFF	Ressing et al., "Occasional Memory Cytotoxic T-Cell Responses of Patients with Human Papillomavirus Type 16-positive Cervical Lesions against a Human Leukocyte Antigen-A 0201-restricted E7-encoded Epitope," CANCER RESEARCH, 56:582-588 (1996).

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	AGGGGC	Sheets et al., "Immunotherapy of human cervical high-grade cervical intraepithelial neoplasia with microparticle-delivered human papillomavirus 16 E7 plasmid DNA," American J. of Obstet. Gynecol. 188:916-926 (2003).
	AHHHHH	Shrine et al., "Pangaea Aims Naturally Processed Peptides at First viral Target: Human Papilloma Virus," BIOWORLD TODAY, THE BIOTECHNOLOGY NEWSPAPER, 7:1-2 (1996).
	AIIIII	Stellar et al., "Human Papillomavirus Immunology and Vaccine Prospects," JOURNAL OF THE NATIONAL CANCER INSTITUTE MONOGRAPHS, No. 21, pp. 145-148 (1996).
	AJJJJJ	Suhrbier "Multi-Epitope DNA Vaccines" IMMUNOL. CELL BIOL., 75:402-408 (1997).
	AKKKKK	Takahashi et al., "Induction of CD8 Cytotoxic T Cells by Immunization with Purified HIV-1 Envelope Protein in ISCOMs," NATURE, 344:873-875 (1990).
	ALLLLL	Tarpey et al., "Human Cytotoxic T Lymphocytes Stimulated by Endogenously processed human papillomavirus type 11 E7 recognize a peptide containing a HLA-A2 (A*0201) motif," IMMUNOLOGY, 81:222-227 (1994).
	AMMMMM	Thomson et al. "Delivery of Multiple CD8 Cytotoxic T Cell Epitopes by DNA Vaccination" J IMMUNOL., 160:1717-1723 (1998).
	ANNNNN	Thomson et al. "Minimal Epitopes Expressed In a Recombinant Polyepitope Protein Are Processed and Presented to CD8 <sup>+</sup> Cytotoxic T Cells: Implications for Vaccine Design" PROC. NATL. ACAD. SCI., 92:5845-5849 (1995).
	AOOOOC	Thomson et al. "Recombinant Polyepitope Vaccines for the Delivery of Multiple CD8 Cytotoxic T Cell Epitopes" J. IMMUNOL., 157:822-826 (1996).
	APPPPP	Toes et al. "Protective Anti-Tumor Immunity Induced By Vaccination With Recombinant Adenoviruses Encoding Multiple Tumor-Associated Cytotoxic T Lymphocyte Epitopes In a String-of-Beads Fashion" PROC. NATL. ACAD. SCI., 94:14660-14665 (1997).
	AQQQQQ	Tsukui et al., "Interleukin 2 Production in vitro by Peripheral Lymphocytes in response to Human Papillomavirus-derived peptides: Correlation with Cervical Pathology," CANCER RESEARCH, 56:3967-3974 (1996).
	ARRRRR	Urban et al., "A subset of HLA-B27 Molecules contains peptides much longer than nonamers," PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES, 91:1534-1538 (1994).
	ASSSSS	Vitiello et al., "Analysis of the HLA-restricted Influenza-specific Cytotoxic T Lymphocyte Response in Transgenic Mice Carrying a Chimeric Human-Mouse Class I Major Histocompatibility Complex," THE JOURNAL OF EXPERIMENTAL MEDICINE, 173:1007-1015 (1991).
	ATTTTT	Vitiello et al., "Development of a Lipopeptide Based Therapeutic Vaccine to Treat Chronic HBV Infection," THE JOURNAL OF CLINICAL INVESTIGATION, 95:341-349 (1995).
	AUUUUU	Von Heijne, Gunnar, "A New Method for Predicting Signal Sequence Cleavage Sites", NUCLEIC ACIDS RESEARCH, 14(11):4683-4690 (1986).
	AVVVVV	Whitton et al. "A "String-of-Beads" Vaccine, Comprising Linked Minigenes, Confers Protection From Lethal-Dose Virus Challenge" J. VIROLOGY, 67(1):348-352 (1993).
	AWWWWW	Zhu et al., "Both Immunization with Protein and Recombinant Vaccinia Virus Can Stimulate CTL Specific for the E7 Protein of Human Papilloma Virus 16 in H-2 <sup>d</sup> Mice," SCANDINAVIAN JOURNAL OF IMMUNOLOGY, 42:557-563 (1995).

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